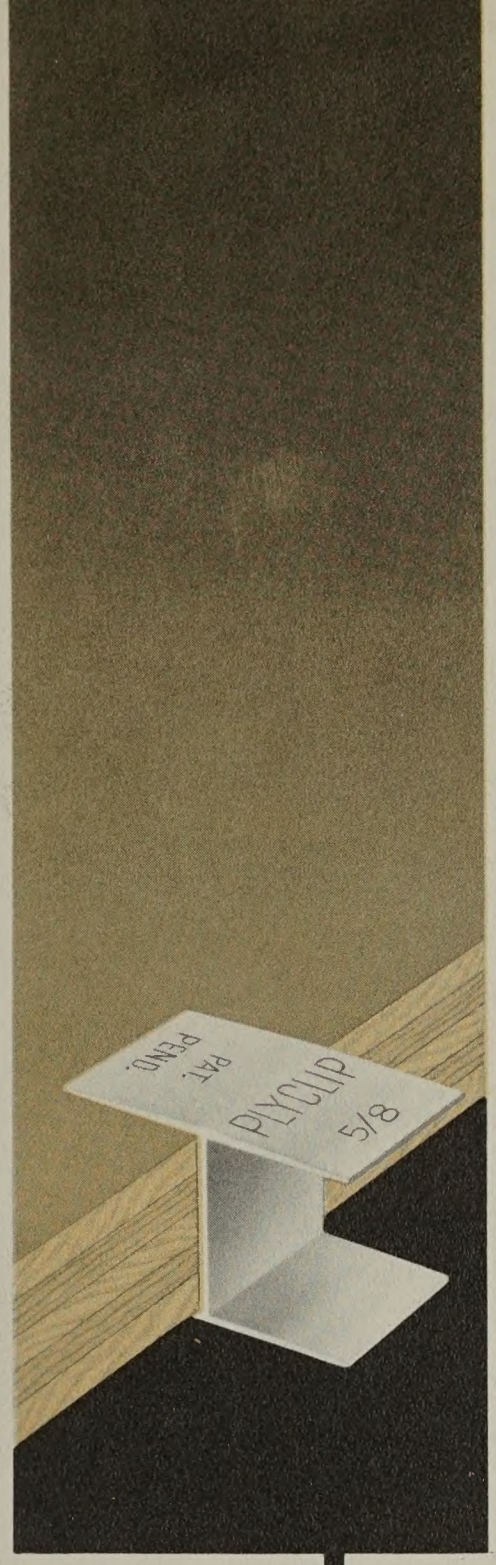
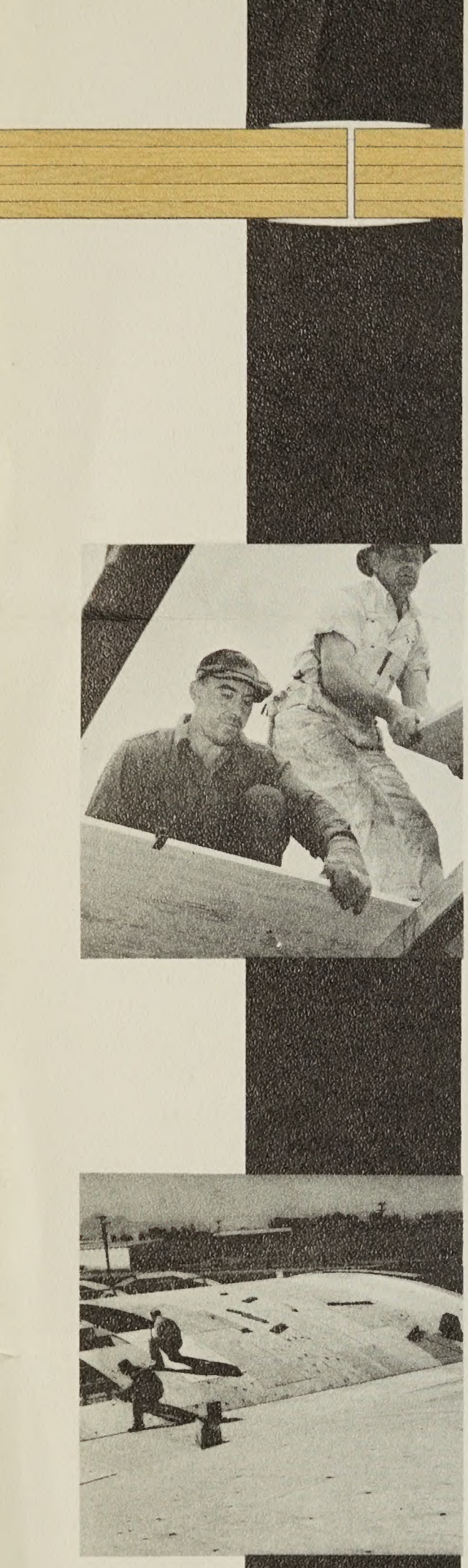


save more
roof sheathing dollars
with . . .

PLYCLIPS

PLYWOOD RESEARCH FOUNDATION TACOMA 4, WASHINGTON



what are PLYCLIPS

Plyclips are simple new "H" shaped fastening devices used as an economical substitute for conventional blocking in roof construction.

Made of extruded aluminum alloy, they are 1-3/16" long and 3/4" wide and have center webs whose length corresponds to these fir plywood sheathing thicknesses: 3/8", 1/2", 5/8", 3/4", and 13/16".

The Plyclip flanges are slightly tapered for ease of placement on plywood edges. The thickest section of the Plyclip is at the connecting point of the web and the flanges where the greatest amount of stress will take place.

how are PLYCLIPS used

Plyclips are inserted between two panels of fir plywood at the time sheathing is applied. This eliminates any need for conventional blocking except where the development of maximum shear strength is necessary.

Placed between rafters and purlins they stiffen the joint between the two adjacent panels by transferring a concentrated load from one panel edge to the other. No additional support or nailing is needed at joint.

A typical industrial application is the use of two Plyclips on 3/4" fir plywood sheathing on a 48" rafter span. They may also be used as premium construction where blocking is not normally required; i.e., 3/8" plywood on 24" rafter span.

Plyclips may also be useful where roofing contractors insist on some form of panel edge stiffening as a requirement for bonded jobs.

PLYCLIPS save builders money can increase your fir plywood sales

Estimates from pilot jobs show that Plyclips have saved contractors from $14.50 to $49.50 per 1,000 sq. ft. of roof. These jobs included a school, a supermarket, a large warehouse, and a small factory.

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PLYCLIPS *have been proved in the field*

The following are case histories of roof sheathing jobs where Plyclips or their prototypes were used:

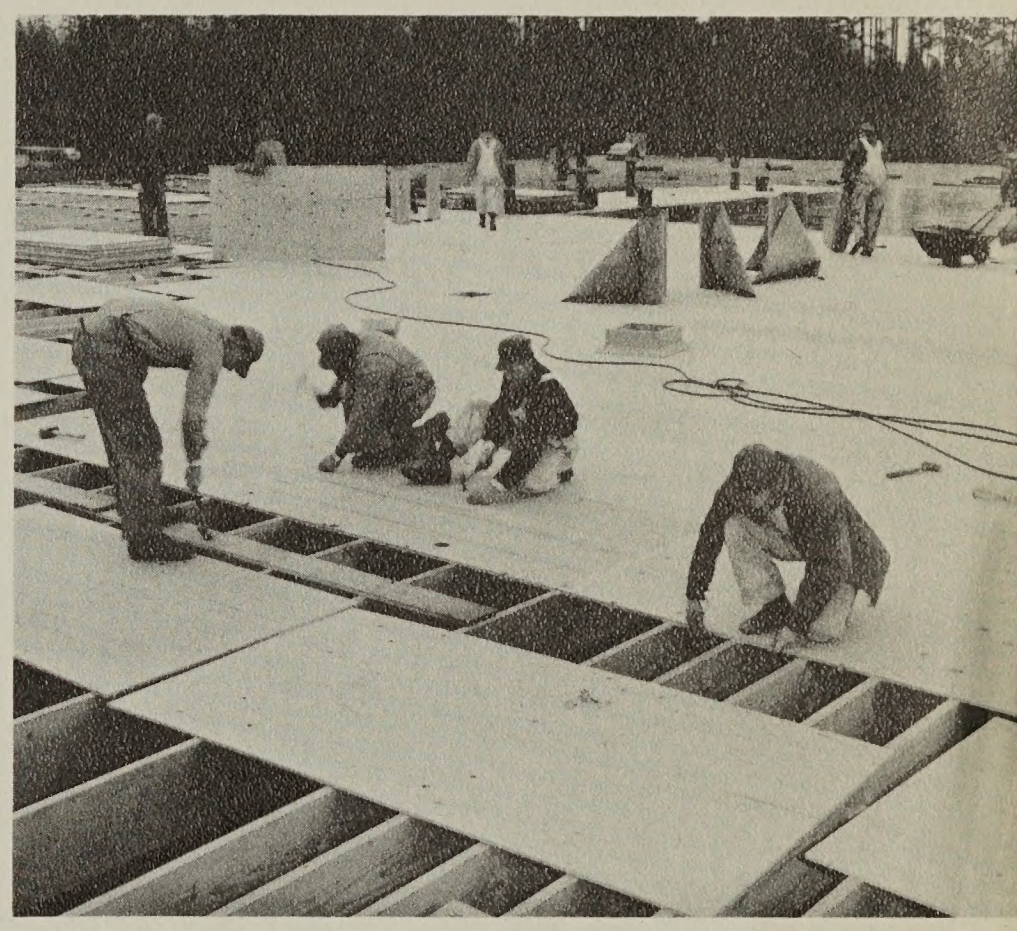
Nelson Construction Company, Tacoma, Washington reports a total savings of $390.00 with the use of pilot model Plyclips costing 7½c each. Using Plyclips at their present price, a $500.00 savings could have been made. Fir plywood was laid across steel trusses on 4′ centers with two clips inserted between joists in lieu of blocking. Their cost was $8.30 per 1,000 sq. ft. of roof. The builder estimated a cost of $34.30 per 1,000 sq. ft. of roof, if blocking had been used.

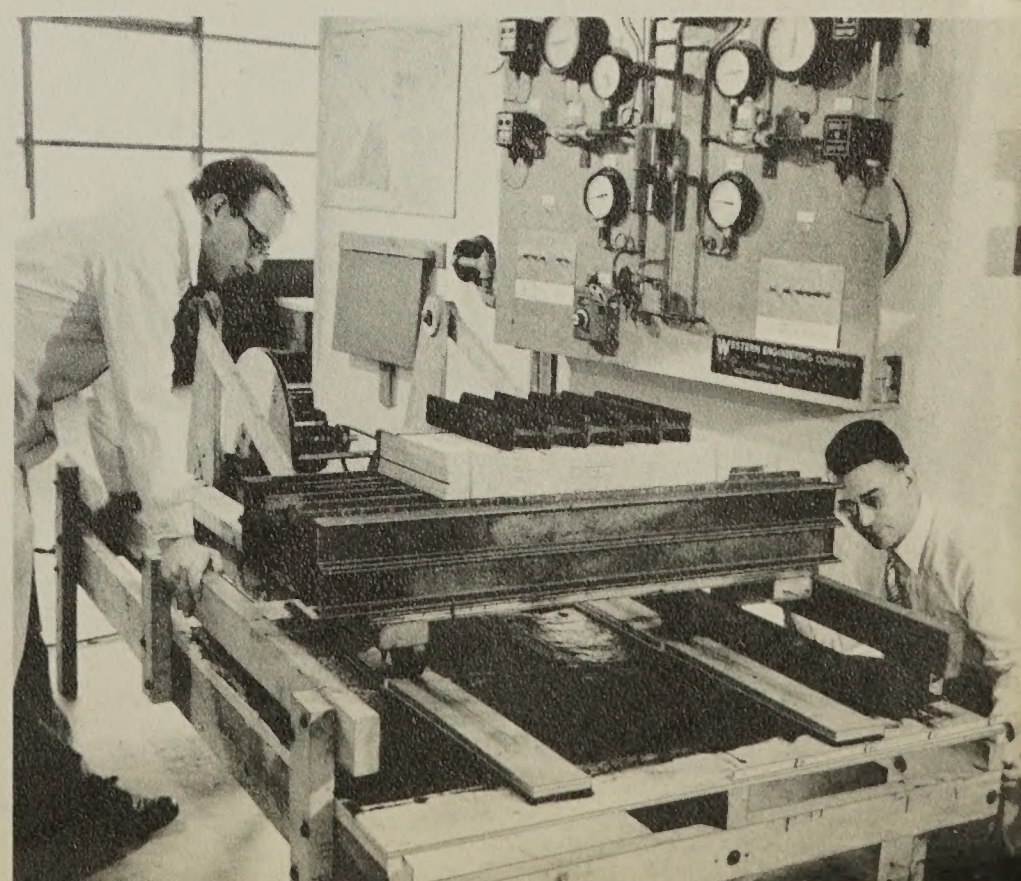
The March Construction Company reports that a trial use of Plyclips at 3½c each saved $425.00 on 20,000 sq. ft. of roof sheathing in a supermarket. The plywood was laid across wood purlins on 2′ centers. The builder says blocking cost him 23c for each unit.

PLYCLIPS *have been laboratory tested*

Plyclips have been subjected to rigid tests by the DFPA Engineering Research Laboratory. Static and repetitive load tests were conducted. The results show that Plyclips will increase by about 80%, the concentrated load (up to their average ultimate load of 850 lbs.) a panel will bear at its edges within any allowable deflection.

They reduce the differential deflection between panel edges to less than 1/16″ under concentrated loads of 250 lbs., applied directly over the Plyclip. A comprehensive technical test report is available upon request.





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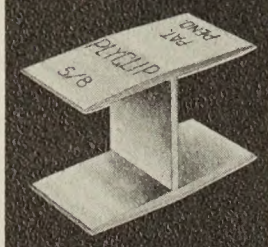


span recommendations

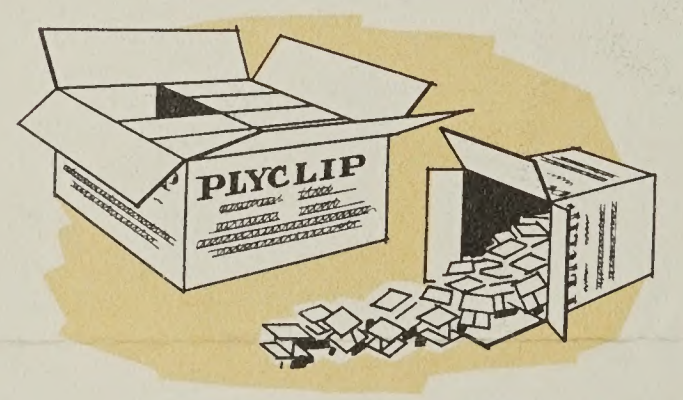
ALLOWABLE SPANS FOR FIR PLYWOOD ROOF SHEATHING WITH PLYCLIPS
Face Grain Perpendicular to Supports

Thickness, Inches	MAXIMUM SUPPORT SPACING, CENTER-TO-CENTER, INCHES				
	WITH PLYCLIPS (2)				WITHOUT EDGE SUPPORT (unless otherwise limited by uniform loads)
	TOTAL ROOF LOAD, LBS. PER SQ. FT.				
	20	30	40	50	
5/16-R	20 (1)	20	20	19	20
3/8-R	24 (1)	24	24	23	24
1/2-R	32 (1)	32	30	29	28
5/8-R	42 (1)	42	39	36	32
3/4-R or S	48 (1)	47	42	39	36
13/16-R	60 (1)	53	48	45	40

(1) These spans shall not be exceeded for any load condition.

(2) A single PLYCLIP at the middle of the maximum allowable span is adequate edge support, except that two clips, equally spaced, are recommended for 3/4″ plywood on a 48″ span and for 13/16″ on spans exceeding 48″.

Detlection is limited to 1/240th ot span under total uniform load. Plywood is continuous over two or more spans. For special case of plywood continuous over two spans only, either (a) spans may be increased 6-1/2%, except as limited under footnote (1); or (b) loads may be increased 20% for the same span.



how to order

PLYCLIPS are available in the following sizes: 3/8″, 1/2″, 5/8″, 3/4″, and 13/16″. They are packaged 500 per carton. See us for prices and further information.

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